## Armstrong Flight Research Center Educator Professional Development Workshop

## Journey to Mars: Developing Crosscutting Breakthrough Technologies



Future robotic missions to Mars and human exploration of the Red Planet will require massive payloads to be delivered to the surface. NASA is developing large, sturdy, and lightweight systems to deliver the next generation of rovers and landers to Mars. These systems, called Low Density Supersonic Decelerators, aim to solve the complicated problem of slowing spacecraft entry vehicles down to safely deliver large payloads to the surface without bringing along massive amounts of extra rocket propellant or carrying a large and heavy atmospheric entry shield. Join NASA's Armstrong Flight Research Center (AFRC) Office of Education for an educator professional development workshop where you will learn about this exciting new technology. Using NASA'S BEST Engineering Design Process, participants will design a prototype of new drag devices to potentially land humans, habitats, and their return rockets safely on Mars.

**Target Audience:** K-12 Formal and Informal Educators

**When:** Wednesday, April 5, 2017, 4:30 pm – 6:00 pm

Location: NASA Armstrong Educator Resource Center at the AERO Institute, 38256 N.

Sierra Hwy., Palmdale, CA 93550

Register Online: <a href="https://goo.gl/forms/d5vO87Q77LfsZAjh1">https://goo.gl/forms/d5vO87Q77LfsZAjh1</a>

Questions? Call Sondra Geddes 661-276-2359 or email at <a href="mailto:sondra.l.geddes@nasa.gov">sondra.l.geddes@nasa.gov</a>

There is no charge for the workshop. Free NASA educational materials will be provided. Seats are limited, and will be filled on a first-come, first-serve basis. All participants must be 18 years old or older.

